**Joins and Unions**

**Q1** Table **Employees** contains the employee’s information who submitted the tasks to the manager. Table **Managers** contains the manager’s information who assigned the tasks to their employees. And the table **Tasks** contains number of tasks submitted by each employee to their respective manager.

GO

CREATE TABLE **EMPLOYEES** (employee\_id INT,employee\_name VARCHAR(50),city VARCHAR(50),manager\_id INT)

GO

CREATE TABLE **MANAGERS** (manager\_id INT,manager\_name VARCHAR(50),city VARCHAR(50))

GO

CREATE TABLE **TASKS** (TASK\_NO INT,employee\_id int,manager\_id int,TASK\_SCORE int)

GO

INSERT INTO **EMPLOYEES** (employee\_id, employee\_name,city,manager\_id)

VALUES

(1002,'Asjad','Lahore',2001),

(1007, 'Hamza','Lahore',2001),

(1005, 'Usama','Rawalpindi', 2002),

(1008,'Omar', 'Islamabad', 2002),

(1004,'Momina', 'Delhi', 2006 ),

(1009, 'Nisar', 'Peshawar',2003),

(1003, 'Musa', 'Lahore',2007),

(1001,'Tayyab', 'Lahore',2005 );

GO

INSERT INTO **MANAGERS** ( manager\_id, manager\_name, city )

VALUES

(2001, 'Aasim', 'Lahore'),

(2002, 'KL', 'Lahore'),

(2005, 'Zeeshan', 'Rawalpindi'),

(2006, 'Abdullah', 'Islamabad' ),

(2007, 'Farhan','Delhi' ),

(2003, 'Sabahat','Peshawar')

GO

INSERT INTO **TASKS** (TASK\_NO, employee\_id, manager\_id, TASK\_SCORE)

VALUES

(50001,1005,2002,100),

(50009,1001,2005,99),

(50002,1002,2001,98),

(50004,1009,2003,75),

(50007,1005,2002,74),

(50005,1007,2001,63),

(50008,1002,2001,66),

(50010,1004,2006,79),

(50003,1009,2003,89),

(50012,1008,2002,88),

(50011,1003,2007,94),

(50013,1002,2001,92);

**Task 1:**

Write a query that returns the ID and Name of each employee and manager against whom tasks assigned and submitted are more than one.

The output should be a single table with only 2 columns only named, ID and Name containing manager’s/employee’s IDs and Names. Below table is for the reference.

**OUTPUT:**

|  |  |
| --- | --- |
| ID | Name |
| 252 | Ali |
| 2388 | Asif |
| 8532 | Adeel |

**Task 2:**

Write a query that returns the name and score of the employee with the second lowest score.

Note: Do not hardcode.

**Task 3:**

Write a query that returns the name and score of the employee with the second highest score.

Note: Do not hardcode.

**Task 4:**

Write a query that returns the names of Managers and the number of employees reporting to them.

**Task 5:**

1. Write a query that returns the number of tasks currently assigned to each employee.
2. Write another query that returns the number of tasks managed by each manager currently.
3. Write a query that returns the total task score assigned to each employee.

**Task 6:**

Write a query returning the list of managers who are assigned to at least one employee in ‘Lahore’.

**Q2: Please restore the DB from the .BAK file provided.**

**You have to write queries for the following reports**:

1 - Return a list of patients who have either a problem diagnosed or a medication prescribed to them. Output Format: PatientID,FirstName,LastName,DOB

2 - Return a list of all problems along with Code9 and Code10.

3 - Return a list of all medications against the patients who live in 'Clinton Township' and have atleast one problem diagnosed.

4- From the table Medications, separate out the numeric Code from the column 'Rx\_Normcode'